

## V Semester B.C.A. Examination, February/March 2024 (NEP Scheme) (Freshers) COMPUTER SCIENCE **Quantitative Techniques**

Max. Marks: 60 Time: 21/2 Hours

Instruction: Answer any four from each Section.

## SECTION - A

 $(4 \times 2 = 8)$ I. Answer any four questions. Each question carries 2 marks.

- What is the divisibility rule of 8 ? Give example.
- 2) What is the LCM of  $\frac{36}{225}$ ,  $\frac{48}{150}$ ,  $\frac{72}{65}$ ?
- 3) What is the value of  $\sqrt{5184}$  and  $\sqrt[3]{97336}$  ?
- 4) Find the value of  $\log\left(\frac{15}{16}\right) \log\left(\frac{27}{45}\right) + \log\left(\frac{48}{75}\right)$ .
- 5) Pointing of a boy Mahesh said "He is the son of the only son of my mother". How is Mahesh related to the boy?
  - a) Father
- b) Cousin
- c) Grandmother
- d) None of these
- 6) How many ways the word "EQUATION" can be arranged in non-repeated letters?

## SECTION - B

- II. Answer any four questions. Each question carries 5 marks.  $(4 \times 5 = 20)$ 
  - 7) Which least number when divided by 36, 24, 16 leaves 11 as remainder in each case?
  - 8) Of the three numbers the first is twice the second and the second is thrice the third. If the average of the three numbers is 10. What is the largest number?
  - 9) Find the value of  $\log_{\sqrt{7}} \left( \frac{1}{343} \right)$  and  $\log_2 \left( \frac{512 \times 256}{32} \right)$ .



- 10) Which day of the week was 12 March 1940?
- 11) Explain Article, Workshop and Seminar.
- 12) Define Teaching. Explain the characteristic involved in Teaching.

## SECTION - C

111	Δns	wei	any four questions. Each question carries 8 marks. (4×8=3)	2)
111.	13)	Ho	w many ways the word "ANIMATION" can be arranged such that	
	10,		Repeated letters	
			Vowels comes together	
			Consonants comes together	_
		4)	Vowels never comes together.	8
	14)	a)	Explain Research. Give the characteristic and steps involved in Research.	6
		b)	Define Thesis writing.	2
	15)	a)	Explain the characteristic involved in communication.	4 4
		b)	Discuss about effective classroom communication.	_
	16)	a)	At what does of April 2001 did Wednesday fall?	4
		b)	The sum of two numbers is 40 and differences between them is 4. Find	4
			the numbers in ratio.	-
	17)	a)	At what time between 30' clock and 40' clock the hands of the clock	4
		h)	be together?  A pot has 2 white, 6 black, 4 grey and 8 green balls. If one balls is picked	
		D)	randomly from the pot. What is the probability of being black or green	? 4
	18)	) a)	Two pipes A and B can fill the tank in 4 hours and 5 hours respectively.	
		,,	If they opened on alternate hours and if pipe b is opened in at From	4
			many hours it will take to fill the tank?	-
		b)	Dinesh deposit an amount of Rs. 65,800 to obtain simple interest at 14% per annum for 4 years. What is the total amount will Dinesh get	
			at the end of 4 years?	4